

ITINERARY OF WILLIAM JOHN BURCHELL IN BRAZIL, 1825-1830

Lyman B. Smith and Ruth C. Smith

Thanks to the hospitality of the director and staff of the Royal Botanic Gardens, Kew, England, it was possible to consult the field books of William John Burchell and prepare the present detailed account of his itinerary in Brazil. The intent of this paper is to follow in the tradition of the work of T. A. Sprague and N. Y. Sandwith on the itineraries of Humboldt and Bonpland. However, the problem is quite different, because Burchell did not publish any account of his collecting nor indicate localities or even states on his labels. Urban, in the introductory volume of the Flora Brasiliensis, gives a rough indication of general areas, but Burchell's collections deserve better treatment. Fortunately, his numbers are chronological and thus can be used as a guide and index.

We have made a list of the numbers and the dates and places at which these numbers were collected. Armed with this list, we have consulted the Millionth Maps of Hispanic America compiled and drawn by the American Geographical Society of New York, 1940, the Carta do Brasil ao Milionésimo published by the Instituto Brasileiro de Geografia e Estatística, 1960, and many other old and recent maps of Brazil, its states and cities, which we found at The Smithsonian and at the Map Division of the Library of Congress. We also found old names of modern locations and other information in the Enciclopédia dos Municípios Brasileiros published by the Instituto Brasileiro de Geografia e Estatística. In this way we have located a large percentage of the places at which Mr. Burchell collected - large enough and close enough together to plot out his itinerary with a reasonable amount of accuracy.

We are listing the numbers, their dates and the localities by latitude and longitude as far as we know. In this listing we are making comments, where necessary, on the places in between that we could not find, on relative locations within the larger cities, on the old and present names of places, and on any other details that may clarify this account. Our comments are in parentheses and everything else after each number is directly quoted from Mr. Burchell's field books.

Mr. Burchell started his collections within the city of Rio de Janeiro, the then national capital, now part of the State of Guanabara, with the numbers 701 - 1103 between 16 August and 29 September of 1825.

701 - 808, 16 Aug. 1825, along the aqueduct a mile and half above the convent of Santa Teresa (in the old part of Rio, S 22° 54', W 43° 10-12).

809 - 818, Near Mátopórcos, on stems of orange trees (in old city on northern slopes of Morro de Santos Rodrigues, west northwest of Gloria).

819 - 897, 8 Sept. 1825, along the aqueduct, as before.

898 - 991, 15 Sept. 1825, along the aqueduct from the Convent of Santa Teresa to the spot where it crosses the ridge in sight of the Valley of Laranjeiros (as) (S 22° 56', W 43° 11-12').

992 - 1007, Near Lagôa das Freitas on the road between Botafogo Bay and the Botanic Garden (S 22° 57', W 43° 12-13').

1008 - 1080, 26 Sept. 1825, hill of N. Sa. (Nossa Senhora) do Livramento, to the English Burial Ground and to Mátopórcos (Morro do Livramento is north of Mátopórcos, northwest of Morro do Castello).

1081 - 1083, 27 Sept. 1825, on the Castello Hill in the Town of Rio de Janeiro (S 22° 54', W 43° 11', the first settlement in Rio and the zero point of longitude on old Brazilian maps, later removed for fill to extend the city into the bay).

1084 - 1103, 29 Sept. 1825, In Botafogo Bay (S 20° 57', W 43° 11').

He next took a short trip up through the state of Rio de Janeiro to Minas Gerais from 7 October to 16 November 1825, collecting numbers 1105-1 to 1105-123.

1105-1 - 1105-7, 7 Oct. 1825, Pôrto de Estrella (S 22° 44', W 43° 14', by mouth of Rio Estrella or Inhomerim) - lichens.

1105-8, 8 Oct. 1825, Tamaratí (Itamariti, a fazenda at Petrópolis, S 22° 32', W 43° 11').

1105-9 - 1105-25, 19 Oct. 1825, Descoberto do Rio Novo.

1105-26, 3 Nov. 1825, At Francisco Manoel's.

1105-27 - 1105-35, 6 Nov. 1825, at Capt. Amaro Leite's.

1105-36 - 1105-37, 8 Nov. 1825, between Pillão and the Registro, Pôrto do Mar, on the Parahiba (probably Entre Rios, now Tres Rios, S 22° 6', W 43° 12').

1105-38 - 1105-44, 9 Nov. 1825, between the Parahiba Registro and Morro Grande (going east on the Parahiba and then south on the Paquequer to Cármo which may be Morro Grande, as it is on a hill, S 21° 55', W 42° 37').

1105-45 - 1105-51, 10 Nov. 1825, between Morro Grande and Soumidouro (Sumidouro, S 22° 03', W 42° 42', on his way back to Rio)

1105-52 - 1105-57, Between Soumidouro and Tamaratí (the fazenda at Petrópolis, S 22° 32', W 43° 11').

1105-58 - 1105-74, 12 Nov. 1825, between Corrego Secco (another fazenda at Petrópolis), Serra d'Estrella, and Mandióca; on the summit of Serra d'Estrella (Alto da Serra? Inhomerim?).

1105-75 - 1105-82, 13 Nov. 1825, at Mandióca (Raiz da Serra? Piabetá? S 22° 34', W 43° 10').

1105-83 - 1105-107, 27. Oct to 14 Nov. 1825, in the Province of Minas Gerais on the road between Porto d'Estrella and the Descoberto do Rio Novo. (The repetition of these dates and places indicates that these plants may have been numbered late).

1105-108 - 1105-123, 15 Nov. 1825, on the Ilha do Governador (in Guanabara Bay, S 22° 47-50', W 43° 10-15'. This completes the 1105 series).

The numbers 1106 - 3040 conclude the Rio de Janeiro and

vicinity collections.

1106 - 1152, 6 Dec. 1825, on the Corcovado Mountain, on the summit and in the forest which clothes the highest part of the mountain (S 22° 57', W 43° 13').

1153 - 1180, Along the more open part of the road, from the forests to the head of the Aqueduct.

1181 - 1192, Along the upper end of the Aqueduct as far as the spot where the road crosses it to the northern side, and where the collection of 15.9.25 ended.

1193 - 1250, 19 Dec. 1825, along the Aqueduct as on 8 Sept., no. 819.

1251 - 1273, 24 Dec. 1825, along the Aqueduct mostly on the left or SE side and the thick woods.

1274 - 1283, (Same day, on the same hill) quitting the aqueduct by the first opening or valley just above the stone quarry.

1284 - 1291, (Same day) above the stone quarry.

1292 - 1371, 29 Dec. 1825, Barros Vermelhos and Rio Comprido (S 22° 55-56', W 43° 12').

1372 - 1461, 31 Dec. 1825, on the Corcovado Mountain by the way of Laranjeiras.

1462 - 1487, 1 Jan. 1826, about Catete, near the bridge and Praia do Flamengo (both places S 22° 55-56', W 43° 10').

1488 - 1564, 10 Jan. 1826, in a walk from Praia Grande (Niteroy or Niteroi, S 22° 53', W 43° 08') to the village of São João do Carahy (Icarai, part of Niteroi, S 22° 55', W 43° 08') and two miles farther.

1565 - 1655, 18 Jan. 1826, in a walk to the village of São Christovão (section of Rio where the Museu Nacional is located, S 22° 54', W 43° 13') and Engenho Velho.

1656 - 1664, 22 Jan. 1826, at Catete (S 22° 55-56', W 43° 10') near the bridge.

1665 - 1668, 26 Jan. 1826, Barros Vermelhos.

1669 - 1718, 26 Jan. 1826, Morro da Ladira.

1719 - 1731, Catombi (Catumbi, east side of Morro Santos Rodrigues).

1732 - 1862, Along the Valley of Catumbi 1732 - 1760 Aqueduct 1761 - 1812 and ascent of high mountain on the NW side and along the aqueduct 1854 - 1862.

1863 - 1922, At Frechal, Frexal, or Frechaes (S. Aleixo? S 22° 33', W 43° 04') between Majé (Magé S 22° 39', W 43° 02') and the Organ Mountains (southeast of Petrópolis).

1923 - 1996, Serra dos Orgãos about the head of River Paquequé (Paquequer), near Mr. March's dwelling house (near Teresópolis, S 22° 26', W 42° 59').

1997 - 2004, 8 Feb. 1826, northward to the Mule and Cow Currals - to the Horse Curral and Milho Roca (probably on Mr. March's property).

2005 - 2140, 11 Feb. 1826, mountain in front of Mr. March's house.

2141 - 2158, 9 Feb. 1826, River Pacaque by Mr. March's house.

2159-2213, 13 Feb. 1826, (Same location).

2214 - 2366, 15 Feb. 1826, 1 1/2 miles south of Mr. March's

house.

2367 - 2441, 20 Feb. 1826, River Pacaqué near Mr. March's house.

2442 - 2488, 21 Feb. 1826, 1 1/2 miles north of Fazenda de Pacaqué - March's.

2489 - 2506, (Same date and place) along road.

2507 - 2575, Forest, descent from Serra dos Orgãos to Frechal (S. Aleixo? S 22° 33', W 43° 04').

2576 - 2584, Foot of mountains to Frechal.

2585 - 2704, 25 Feb. 1826, Frechal to Magé (S 22° 39', W 43° 02').

2705 - 2735, 28 Feb. 1826, two miles down Rio Magé from Magé, from canoe.

2736 - 2743, 27 Feb. 1826, Town of Magé.

2744 - 2777, 1 Mar. 1826, up Rio Magé to Fazenda da Lagôa.

2778 - 2829, 22 Mar. 1826, along Aqueduct nearly to head of Valley of Laranjeiras (back in Rio, S 22° 56', W 43° 11-12').

2830 - 2832, 27 Mar. 1826, Village of São Domingos (part of Niteroi, S 22° 53', W 43° 08').

2833 - 2917, (Same date), to the Island of Boa Viagem (part of Niteroi, S 22° 55', W 43° 08').

2918 - 2935, 31 Mar., 11 June 1826, Catete (S 22° 55-56', W 43° 10') and the suburbs of Rio.

2936 - 2976, 10 June 1826, Valley of Laranjeiras.

2977 - 3006, Catete and suburbs of Rio.

3007 - 3028, 17 Aug. 1826, Tejuca (Tijuca) Mountains (S 22° 56', W 43° 16').

3029 - 3040, 20 Aug. 1826, between Catete and Botafogo Bay.

Mr. Burchell goes to the area of Santos where finishes his first bound volume with numbers 3041 - 3464.

3041 - 3082, 16 Sept. 1826, in the forest close above the Benedictine Monastery at Santos (S 23° 57', W 46° 19').

3083 - 3108, 20 Sept. 1826, same.

3109 - 3152, 24 Sept. 1826, swampy level ground westward of Santos towards Cubatão (S 23° 53', W 46° 25').

3153 - 3182, 26 Sept. 1826, to Chapel of Nossa Senhora de Montserrat.

3183 - 3204, 29 Sept. 1826, at Santos in the woods.

3205 - 3226, 1 Oct. 1826, at the Barra along the shore of the Bay, thence through swampy woods back to the Town of Santos.

3227 - 3261, 18 Oct. 1826, Outeirinhos (a "small elevation of land on the left bank of the River Iguape in front of Morro Jupuvura" S 24° 40', W 47° 37', translated from Dicionario Geografico do Estado de São Paulo by Gastao Cesar Bierrenbach Lima, São Paulo, 1943) to Santos.

3262 - 3312, 22, 23 Oct. 1826, Santos to São Vicente (S 23° 58', W 46° 23').

3313 - 3361, 25 Oct. 1826, in the forest under the Mountain etc.

(3365)

3366 - 3386, 3 Nov. 1826, on Montserrat (in Santos on north-

east part of Island of São Vicente).

3387 - 3411, 9-11 Nov. 1826, near the Benedictine Monastery in the chacara where I resided (in Santos).

3412 - 3439, 12 Nov. 1826, forest above Benedictine Monastery.

3440 - 3450, 16 Nov. 1826, (same locality).

3451 - 3461, 1 Dec. 1826, (same locality).

3462 - 3464, 2 Dec. 1826, (same locality).

End of Bound Volume I

In Bound Volume II, with numbers 3462 - 5336, Mr. Burchell finishes in Santos and collects in São Paulo and its vicinity and starts north in São Paulo toward Minas Gerais.

3462 - 3483, 8 Dec. 1826, near Cubatão (S 23° 53', W 46° 25') at Rio das Pedras (S 23° 52', W 46° 28') in Mr. Smith's Citio and immediate vicinity.

3484 - 3514, 9 Dec. 1826, same, in sylvis.

3515 - 3544, 10 Dec. 1826, same.

3545 - 3594, 13 Dec. 1826, in the lower part, about 1/3, of the Ascent up the Serra de Cubatão (S 23° 51', W 46° 28').

3595 - 3628, 15 Dec. 1826, at Rio das Pedras.

3629 - 3679, 16 Dec. 1826, in the middlepart, about 2/3, of the Ascent up the Serra de Cubatão.

3680 - 3725, 22 Dec. 1826, in the upper part of the Ascent up the Serra de Cubatão - summit or Pico da Serra.

3726 - 3823, 22 Dec. 1826, from the Pico da Serra, 1 1/2 miles toward São Paulo.

3824 - 3864, 24 Dec. 1826, 15 Jan. 1827, about Rio das Pedras and Cubatão.

3865 - 3885, 17 Jan. 1827, summit of Serra de Cubatão to the village of São Bernardo (S 23° 42', W 46° 33').

3886 - 3984, 18 Jan. 1827, about the village of São Bernardo.

3985 - 4080, 20 Jan. 1827, São Bernardo to São Paulo (S 23° 33', W 46° 38').

4080-2 - 4080-10, Jan. 1827, São Paulo.

4081 - 4153, 3 Feb. 1827, São Paulo, about 1 m. NW by N from the Tanque de Zunica as far as the Caveira Santa, in the level dry shrubby campos.

4154 - 4209, 10 Feb. 1827, at St. Paul's for about 2 miles along the Rio de Janeiro road.

4210 - 4278, 15 Feb. 1827, along the road from the Tanque de Zunica to the Convento da Luz (in the northern part of the city, abut east of the center) and thence along the Sta. Anna road (goes due north from São Paulo) over the River Tieté (runswest across the northern part of São Paulo, the crossing at Sta. Anna is S 23° 31', W 46° 40') to a few huts which are about 3 miles distant from my own house.

4278-2 - 4278-8, 4279 - 4290, 21 Feb. 1827, vicinity of St. Paul's for about a mile, along the S. Amaro road.

4291 - 4315 (4319), 22 Feb. 1827, St. Paul's - northward 2 miles towards Agoa-Branca (Agua Branca).

4320 - 4384, 4 Mar. 1827, at Morumbe (Marumbí is the district on the outskirts of modern São Paulo where a great new football

stadium and buildings for other sports are located), over the hilly pastures east of the House. (Northwest part of city now).

- 4385 - 4403, 6 Mar. 1827, Morumbe Road NNW.
 4404 - 4437, 7 Mar. 1827, Morumbe, to the Porto SSE.
 4438 - 4452, 7 Mar. 1827, Morumbe, walk to the Porto.
 4453 - 4474, 9 Mar. 1827, Morumbe, valley southward.
 4475 - 4512, 10 Mar. 1827, Morumbe, near the house.
 4513 - 4549, 12 Mar. 1827, Morumbe, walk to Old House.
 4550 - 4588, 14 Mar. 1827, Morumbe, to the Flint Hill and thence to the Iron Stone Hill.
 4589 - 4626, 16 Mar. 1827, Morumbe to São Paulo - to Rio dos Pinheiros 4589 - 4616 (a river starting in the southwest of the city, flowing north to the Tieté).
 4627 - 4681, 4681-1 - 4681-63, 4682 - 4683, 24 Mar. 1827, Praça da Alegria, by Aroucheis, west towards Agua Branca about 2 m from Tanque de Zunica.
 4684 - 4705, 4705-1 - 4705-17, 4706 - 4712, 1 Apr. 1827, S. Paulo - Santos Road as far as church de Nossa Senhora da Gloria.
 4713 - 4721, 11 Apr. 1827, Varge do Carmo by Rio Road.
 4722 - 4728, Same, campo.
 4729 - 4736, 25 Apr. 1827, Same.
 4737 - 4744, 3 May 1827, Same.
 4745, Tanque de Zunica.
 4746 - 4749, 9 May 1827, Tanque de Zunica to the Luz Convent (Northern São Paulo, a bit east of the center of the city).
 4750 - 4765, 10 May 1827, Tieté to Sta. Anna (S 23° 31', W 46° 40').
 4766 - 4766-2, 11 May 1827, "Boa Morte" in ripa rivuli Tamandaty (Tamandatei, a river which goes north northwest through the city into the Tieté - it later became a canal).
 4767, 29 May 1827, Ponte do Marchál.
 4768, 6 June 1827, "Caveira Santa".
 4769 - 4769-3, S. Paulo.
 4770 - 4774, 17 June 1827, Praça da Alegria.
 4775 - 4776, 18 June 1827, Horto Arouchs (Aroucheis?).
 4777, 23 June 1827, Ad Jaraguá (a town and a mountain northwest of São Paulo, S 23° 27', W 46° 45').
 4778 - 4779, 10 July 1827, Morumbe.
 4780 - 4781, 19 July 1827, Tanque do Carvalho.
 4782 - 4785, 25 July 1827, Rio Tieté at Ponte do Coronel Anastacio.

This is the start of further travels north through São Paulo State, Minas Gerais, and Goiás to Belém do Pará.

- 4786 - 4826, 26 July 1827, Rio Tieté at Ponte do Coronel Anastácio.
 4827 - 4836-3, 27 July 1827, between the Rio Tieté and the Rio Juquirí.
 4837 - 4842, 27 July 1827, Juquirí, house of Francisco da Paula da Silva e Horta (S 23° 21', W 46° 44').
 4843 - 4853, 29 July 1827, Juquirí to the Rancho do Felis.
 4854 - 4868, 29 July 1827, Rancho do Felis.

- 4869 - 4885, 30 July 1827, Rancho do Felis to Jundiahý (S 23° 11', W 46° 53').
- 4886 - 4916, 31 July 1827, Jundiahý campestris.
- 4917 - 4923, 1 Aug. 1827, Jundiahý to Rio Capivarý (S 23° 03', 46° 57').
- 4924 - 4933, 1 Aug. 1827, at Rio Capivarý.
- 4934 - 4957, 2 Aug. 1827, Rio Capivarý to town of Campinas or S. Carlos (S 22° 53', W 47° 05'), the country entirely thick forest and hilly.
- 4958 - 4971, 3-6 Aug. 1827, Campinas, woods east of rancho.
- 4972 - 4997, 8 Aug. 1827, same, dry stunted shrubby hill southwest of town.
- 4998 - 5019, 9 Aug. 1827, Campinas to Fazenda Bucaiúva. Country entirely forest; and soil a red-brown strong clay.
- 5020 - 5040, 10 Aug. 1827, Bucaiúva to Restinga.
- 5041 - 5067, Bucaiúva to Restinga, forest.
- 5068 - 5072, Restinga.
- 5073 - 5104, 11 Aug. 1827, Restinga to Mógi-Merím (S 22° 26', W 46° 57').
- 5105 - 5183, 15 Aug. 1827, Mógi-Merím, campestris, sylva.
- 5184 - 5196, 19 Aug. 1827, Mógi-Merím to Őrisánga (Rio Oriçánga, S 22° 12', W 46° 57').
- 5197 - 5208, 20 Aug. 1827, Őrisánga.
- 5209 - 5242, 20 Aug. 1827, Őrisánga to Itupéva (Rio Itupéva, S 22° 05', W 46° 59").
- 5243 - 5280, 21 Aug. 1827, Itupeva to Cocaes (S 21° 50', W 47° 02').
- 5281 - 5325, 22 Aug. 1827, Cocaes to Tambaú (S 21° 42', W 47° 16').
- 5326 - 5336, 23 Aug. 1827, Tambaú to Cercado (Cerrado? S 21° 33', W 47° 27').

End of Bound Volume II

Bound Volume III continues with numbers 5337 to 6817 and takes Mr. Burchell as far as the city of Goyáz (Goiás).

- 5337 - 5345, 24 Aug. 1827, Ollaría (Gloria?. S 21° 34', W 47° 23').
- 5346 - 5355, 25 Aug. 1827, Ollaría to Rio Pardo (S 21° 28', W 47° 21').
- 5356 - 5382, 26 Aug. 1827, Rio Pardo to Cubatão (where Rio Pardo crosses the Rio Cubatão (S 21° 25', W 47° 23')).
- 5383 - 5408, 27 Aug. 1827, Cubatão to Retiro.
- 5409 - 5419, Retiro.
- 5420 - 5435, 28 Aug. 1827, Retiro to Servo
- 5436 - 5440, 29 Aug. 1827, Servo.
- 5441 - 5455, 29 Aug. 1827, Servo to Ribeirão de Paciencia (S 20° 50', W 47° 25').
- 5456 - 5461, Rio de Paciencia.
- 5462 - 5487, 30 Aug. 1827, Rio de Paciencia to Ribeirão de Veravinha.
- 5488 - 5497, 31 Aug. 1827, R. Veravinha.
- 5498 - 5524, 1 Sept. 1827, R. Veravinha to Villa Franca (S 20°

32', W 47 24').

- 5525 - 5551, 5 Sept. 1827, Villa Franca to Cachoeira.
 5552 - 5562, 6 Sept. 1827, Cachoeira.
 5563 - 5582, 6 Sept. 1827, Cachoeira to Fazenda Burití (Buritys, S 20 13', W 47 44').
 5583 - 5617, 7 Sept. 1827, Burití to Retiro.
 5618 - 5632, 8 Sept. 1827, Retiro to Rio Grande at Pôrto Alto (Ponte Alta, S 19° 59', W 47° 46').

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- 5633 - 5646, 9 Sept. 1827, Rio Grande to Retiro de Tenente.
 5647 - 5665, 9 Sept. 1827, Retiro do Tenente.
 5666 - 5691, 10 Sept. 1827, Retiro do Tenente to Farinha Podre (Uberaba, S 19° 45', W 47° 55').
 5692 - 5702, 11 Sept. 1827, Farinha Podre.
 5703 - 5719, 11 Sept. 1827, Farinha Podre to Lanhoso.
 5720 - 5752, 12 Sept. 1827, Lanhoso to Tejuco (Rio Tejuco, Rib. Agua Limpa, S 19° 35', W ca. 48°).
 5753 - 5789, 13 Sept. 1827, Tejuco to Veráva-legitima.
 5790 - 5836, 14 Sept. 1827, Veráva-legitima to Rio das Velhas (S 19° 05', W ca. 47° 55').
 5837 - 5859, 15 Sept. 1827, Rio das Velhas to Furnas (Indi-anópolis, S 19° 03', W 47° 55').
 5860 - 5880, 17 Sept. 1827, Furnas to Pissarão (Cascalho Rico, S 18° 34', W 47° 52').
 5881 - 5907, 19 Sept. 1827, Pissarão to São Domingos.
 5908 - 5913, 20 Sept. 1827, São Domingos to Rio Paranaíba and Borda do Matto (Borda da Mata on the Rio Paranaíba at S 18° 28', W 47° 55').
 5913 - 5931, Same in sylva densa antiquissima.

GOIÁS

- 5932 - 5934, 22 Sept. 1827, Borda do Matto to Riácho (AGS: S 18° 10', W 47° 58').
 5935 - 5954, Riácho to Catalão (S 18° 10', W 47° 57').
 5955 - 5974, 24 Sept. 1827, Arraial de Catalão to the Pé-do-mórro.
 5975 - 6007, 25 Sept. 1827, Pé do Mórro to Rio Verissimo (S 17° 58', W 48° 10').
 6008 - 6015, 26 Sept. 1827, Rio Verissimo to Braço do Rio Verissimo (S 17° 52', W 48° 06').
 6016 - 6019, 27 Sept. 1827, Rio Braço do Verissimo to Lages (Corrego da Lajes, S 17° 35', W 48° 07').
 6020 - 6036, 28 Sept. 1827, Lages to Palmitál (Ribeiro Palmítál, S 17° 29', W 48° 13').
 6037 - 6044, 29 Sept. 1827, Palmitál to Pé da Rocha.
 6045 - 6061, 30 Sept. 1827, Pé-da-Rocha to Rio Corumba (S 17° 26', W 48° 19').
 6062 - 6072, 2 Oct. 1827, Rio Corumba to Brejo.
 6073 - 6077, 3 Oct. 1827, Brejo to Baú, the Engenho of Miguel

Ribeiro (The Enciclopédia dos Municipios lists a small stream named Baú near Pires do Rio, S 17° 18', W 48° 18').

6078 - 6090, 4 Oct. 1827, Baú to Campo Aberto (Alegre? On the 1940 American Geographical Society map there is a Campo Alegre just northeast of Pires do Rio at S 17° 13', W 48° 17', which is not the larger Campo Alegre de Goiás further east).

6091 - 6110, 5 Oct. 1827, Campo Aberto or Campo Alegre? to S. Basil or S. Basio.

6111 - 6121, 6 Oct. 1827, Vasio (Basio?).

6122 - 6158, Vasio to Bomfim, partly woody campo, partly open.

6159 - 6162, 7 Oct. 1827, Bomfim (Silvânia, S 16° 40', W 48° 36').

6163 - 6170, 8 Oct. 1827, Bomfim to Rio Piracanjuba (S 16° 33' W 48° 50').

6171 - 6196, 9 Oct. 1827, Piracanjuba to As Ántas (Anápolis, S 16° 20', W 48° 58'), P. Borge's.

6197 - 6209, 10 Oct. 1827, As Ántas to Forquilha.

6210 - 6232, 11 Oct. 1827, Forquilha to Forna (Fazenda de Furnas? AGS: S 15° 58', W 48° 56').

6233 - 6241, 12 Oct. 1827, Forna.

6242 - 6252, 12 Oct. 1827, Forna to Méia Ponte (Pirenópolis, S 15° 52', W 48° 58').

6253, 15 Oct.; 6254 - 6281, 16 Oct.; 6282, - 19 Oct.; 6283 - 6287, 20 Oct.; 6288, 22 Oct. 1827, Méia Ponte.

6289 - 6326, 23 Oct. 1827, Méia Ponte to Caísára (There is a Corrego de Cahyssara west and a little south of Pirenópolis).

6327 - 6334, 24 Oct. 1827, Caísára to São Joaquim.

6335 - 6353, 25, 26, 27 Oct. 1827, São Joaquim.

6354 - 6358, 28 Oct. 1827, São Joaquim to Sapezál.

6359 - 6362, 29 Oct. 1827, Sapezál in the forest called Matto Grosso (S 15° 53', W 49° 18').

6363 - 6370, 29 Oct. 1827, Sapezal to Retiro (Corrego do Retiro (AGS: S 15° 53', W 49° 37').

6371 - 6386, 30 Oct. 1827, Retiro to Conceição.

6387 - 6411, 31 Oct. 1827, Conceição to Campo Alegre (Ribeirão Alegre, AGS: S 15° 55', W 49° 54').

6412 - 6437, 1 Nov. 1827, Campo Alegre to Urú (Rio Urú, S 15° 54', W 49° 58').

6438 - 6450, 2 Nov. 1827, Urú to Cidade de Goyáz (Goiás, S 15° 56', W 50° 08').

6451 - 6541, 9 Jan. 1828, Goyáz.

6542 - 6556, 18 Jan. 1828, Goyáz, high ground at S. Eastern entrance.

6557 - 6572, Goyáz, in woods along the Rio Manuel Nunes.

6573 - 6609, 28 Jan. 1828, Goyáz, 1 m. along road to Arraial do Ferreiro (AGS: S 15° 52', W 50° 04').

6610 - 6631, 5 Feb. 1828, Goyáz, left bank of Rio Vermelho from the Rio de Manoel Gomes to the Carioca fountain (The Rio Vermelho comes from the northeast into Goyáz and flows out toward the northwest).

6632 - 6700, 11 Feb. 1828, road to Cuyaba as far as the Rio Bagagem (Ribeiro Bagagem flows due south from Goyáz).

6700-2 - 6700-18, 17 Feb.. 1828, Goyáz, along the first 3 leagues of the road to Aldeia de S. Joze.

6701 - 6747, 21 Feb. 1828, Goyáz, from the Forca WSW about 2 m., Caminho de Nene; country uneven and entirely wooded.

6748 - 6751, 13 Mar. 1828, same.

6752 - 6755, 21 Mar. 1828, same.

6756 - 6817, 23 Mar. 1828, Caminho de Nene, Sitio of Zacharia Ferreira to City.

This completes Volume III of Mr. Burchell's Brazilian Catalogue. We continue the trip through Goiás to Pará and Belém with numbers and places listed in his Large Field Book. There are no dates listed but in a "Memoranda Botanica" manuscript, Mr. Burchell states that "The Brazilian Herbarium (including those of Portugal, Madeira, and Teneriffe) collected between 25 March 1825 (arrival at Lisbon) and the 10th of February 1830 (sailing from Pará) was begun to be unpacked at Fulham on 3rd February 1847 and ended on 15 Feb 1850." This indicates that these later numbers were collected between the last date listed in the Catalogue, 23 March 1828, and 10 February 1830.

The numbers in the Field Book start with 6818 which immediately follows 6817, the last number in Volume III of the Catalogue. There is only one number before each locality. We are figuring that each of these numbers begins a series which ends with the number just before the number of the following entry.

6818 - , (Goyáz, S 15° 56', W 50° 08'), Caminho de Bacopary.

6927 - , (Goyáz), Caminho de Carreira.

6995 - , (Goyáz), Morro de Santa Gallo.

7063 - , (Goyáz), no entry.

7070 - , (Goyáz), peak near Canto Gallo.

7159 - , (Goyáz), suburbanae.

7164 - , (Goyáz), Rio Bacalhão.

7213 - , (Goyáz), Rio de Manoel Gomes.

7289 - , (Goyáz), suburbanae.

7310 - , (Goyáz), Chapel of S. Amaro.

7341 - , (Goyáz), suburbanae.

Resumption of northward travel from Goiás toward Belém.

7353 - , Urú - Rio das Pedras (Rio Urú goes west from Goiás, S 16°, W 50°, and then northwest to Ribeiro das Pedras (AGS: S 15° 45', W 49° 55')).

7367 - , Road to Retiro (Corrego do Retiro, AGS: S 15° 55', W 49° 35').

7389 - , Retiro.

7397 - , Retiro to Goiabeira.

7411 - , Goiabeira.

7436 - , Goiabeira to Corrego de Jaraguá (Jaraguá - there is a Serra de Jaraguá and a city of Jaraguá nearby at S 15° 45', W 49° 20' but we could not find a stream or corrego).

7449 - , Corrego de Jaraguá to Rio Bonafacio.

7463 - , Rio Bonafacio to Estiva (there is a Ribeirão da Estiva just east of Matto Grosso de Goiás at AGS: S 15° 50', W 49°

26', but he would be retracing his steps).

7486 - , Estiva to Capão de S. João (Morro de S. João? AGS: S 15° 45', W 49°).

7498 - , Capão de S. João to Ribeirão dos Macacos (Rio dos Macacos, S 15° 45', W 48° 21').

7503 - , Ribeirão dos Macacos to Olhos de Agua (Olhos de Agua, ca. 16 - just above on AGS map and just below on Inst. Bras. map, W 48° 45' on AGS map and 48° 36' on Inst. Bras. map. In this move he retraces his steps also).

7526 - , Olhos de Agua to Bom Jesús.

7542 - , Bom Jesús to Fazenda Seca (Corrego da Fazenda Seca is due north of Olhos de Agua running from S 15° 10', W 48° 45' to S 15°, W 48° 50').

7558 - , Fazenda Seca to Rio Maranhão (S 14° 59', W 48° 45').

7567 - , Rio Maranhão.

7574 - , Rio Maranhão to Guardamôr.

7580 - , Guardamôr to Ribeirão de S. João.

7601 - , Ribeirão de S. João to Ribeirão da Vendinha (Corrego Vendinha, just south of Trahiras).

7613 - , Ribeirão da Vendinha to Trahiras (Trairas, Tupiracaba S 14° 30', W 48° 34').

7624 - , Trahiras to S. Joze (S. José de Tocantins, Niquelandia, S 14° 28', W 48° 27').

7631 - , no locality listed.

7647 - , S. Joze to R. Bagagem (S 14° 22', W 48° 14').

7681 - , Rio Bagage to Rio da Serra (S 14° 21', W 48° 10').

7719 - , Rio da Serra to Rio Tucantíns (Rio Tocantinzinho, S 14° 17', W 48°).

7747 - , Rio Tucantíns to Ribeirão Padre.

7762 - , Ribeirão Padre to Rio Preto (The Preto goes from east of 48° W longitude northwest to join the Rio Maranhão at about S 13° 37', W 48° 07'. We think Mr. Burchell met it at about S 14° 08', W 47° 55').

7790 - , Rio Preto to As Lages (There is a Lages on the Inst. Bras. map at S 14° 03', W 48° 08' which would mean that he retraced his steps to the westward).

7821 - , As Lages to Rio Moquém (The only Rio Moquém is a Ribeirão back south at AGS: S 14° 30', W 48° 08' near the town of Moquém (Muquém) of the same latitude and W 48° 10' longitude. This would mean that he further retraced his steps. There is some question as to whether he did this, whether similar place names further northeast are lost, or whether he got his numbers mixed up and made these stops on the original trek northeast).

7860 - , Rio Moquém to As Aráras (There is a Ribeirão das Areias at AGS: S 14° 17', W 48° 09' which is between Moquem and Cavalcante and might be this reference).

7876 - , As Aráras to Cavalcánte (S 13° 47', W 47° 30').

7897 - , Cavalcánte.

7923 - , Cavalcánte to Ribeirão Gambá.

7944 - , Ribeirão Gambá to Rio dos Bois (S 13° 34', W 47° 16') Sobrado.

7957 - , Rio dos Bois to Rio Paranán (Rio Paraná, S 13° 27',

- W 47 16').
- 7986 - , Rio Paranán to Taláya (Riaucho Atalaia, AGS: S 13° 30' -25', W 46° 53').
- 7991 - , Talaya to Rio Bezerra (S 13° 03', W 46° 57').
- 7996 - , Rio Bezerra to Rio Chupetéiro.
- 8017 - , Rio Chupetéiro to Arráyas (Arraias, S 12° 56', W 46° 56').
- 8036 - , Arráyas to Corrego Rico.
- 8075 - , Corrego Rico to Sapé (Sapeteiro? AGS: S 12° 53', W 46° 53').
- 8104 - , Sapé to Sta. Brizida (Serra Sta. Brigida? S 12° 42', W 46° 57').
- 8121 - , Sta. Brizida to Rio Pálma (S 12° 28', W 47° 08').
- 8133 - , Rio Pálma to Conceição (Conceição do Norte, S 12° 14' W 47° 16').
- 8146 - , Conceição.
- 8156 - , Conceição to Boracão.
- 8169 - , Boracão to S. Bento (AGS: S 12° 05', W 47° 07').
- 8177 - , S. Bento to Rio Cangálho (Ribeirão Cangalha, S 11° 53' - 12°, W 47° 27').
- 8199 - , Rio Cangálho to Rio Manoel Alves (S 11° 40-54', W 47° -48°, he probably crossed it at S 11° 53', W 47° 37').
- 8207 - , Rio Manoel Alves to Rio Salóbre (S 11° 44', W 47° 43').
- 8226 - , Rio Salóbre to Natividade (S 11° 42', W 47° 47').
- 8251 - , Natividade to Chapada (S 11° 37', W 47° 52').
- 8267 - , Chapada to Rio das Pedras (AGS: S 11° 25', W 47° 45').
- 8280 - , Rio das Pedras to Cánga.
- 8289 - , Cánga.
- 8311 - , Cánga to Cabeça do Boi (Morro Cabeça do Boi or Mauzoleo, AGS: S 10° 46', W 47° 45').
- 8323 - , Cabeça do Boi to Passatrés (Ribeirão Passa Tres (S 10° 56', W 48°).
- 8336 - , Passatrés to Corrego Raiz.
- 8356 - , Corrego Raiz to Cármo (Monte do Cármo, S 10° 45', W 48° 07').
- 8384 - , Cármo to Corrego Fúndo.
- 8393 - , Corrego Fúndo to Porto Real (Porto Nacional, S 10° 43', W 48° 25')..
- 8398 - , Porto Real to Igarapé (Igarapé is a Brazilian word for a channel between two islands or an island and the mainland).
- 8435 - , Porto Real, Ferry to mouth of Igarapé.
- 8482 - , Porto Real, about village.
- 8520 - , Porto Real, ford of Igarapé.
- 8555 - , Porto Real, west side of river.
- 8600 - , Porto Real, Baracão.
- 8637 - , Porto Real, at entrance to village.
- 8691 - , Porto Real, about the Mánga, etc. (Rio dos Mangues? S 10 22', W 48 26' where it meets the Tocantins).
- 8753 - , Porto Real, various.
- 8765 - , Porto do Ferreira, at Porto Real.
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From this point on, Mr. Burchell evidently traveled on the Rio Tocantins and did much of his collecting at portages around the falls.

- 8788 - , Rio S. João (S 10° 25', W 48° 25' - it enters the Tocantins from the east opposite the Mangue.
 8801 - , Graciosa.
 8828 - , no place listed.
 8841 - , Pilóens (Pilões, cachoeira or falls, S 9° 50', W 48° 20').
 8847 - , Mares (Cachoeira dos Marcos? S 9° 48', W 48° 22').
 8862 - , Lageado (Cachoeira Lageado and town of Lageado, S 9° 45', W 48° 22').
 8864 - , Funil (Cachoeira, S 9° 42', W 48° 22', town of Funil and second, lower falls, S 9° 40', W 48° 24').
 8888 - , no place listed.
 8897 - , Red clay and slate.
 8912 - , no place listed.
 8915 - , Canella tree.
 8921 - , Leopoldina.
 8935 - , Alcântara (São Pedro de Alcântara, AGS: São Pedro, S 7° 40', W 47° 42').
 8962 - , and 8965 - , no place listed.
 8972 - , Sobradinha.
 9015 - , Sta. Maria.
 9023 - , Tres Barras (Cachoeira de I. de Tres Barras, S 6° 13', W 47° 23'. These falls would be a likely place for him to collect but they are way down river from Carolina in Maranhão, so that he either went ahead and then back or got his numbers out of order).
 9026 - , Carolina (S 7° 20', W 47° 28') in MARANHÃO.
 9079 - , no place listed.
 9080 - , S. Antonio (Cachoeira, S 5° 47', W 47° 28').
 9082 - , Sandy Island.

PARÁ

- 9092 - , Araguay (São João do Araguay or Araguaia, S 5° 24', W 48° 46').
 9124 - , no place listed.
 9126 - , Former Registro (Border between Goiás and Pará).
 9132 - , Large Sand Island.
 9135 - , Above Itahury (Tauiri? AGS: S 5° 07', W 49° 17' on the river).
 9148 - , Anaraquarra (Cachoeira Aranaquara, AGS: S 4° 56', W 49° 22').
 9165 - , Itaboca (Cachoeiras, S 4° 20-23', W 49° 23').
 9213 - , Guariba (Cachoeira just above Arroio, S 3° 57', W 49° 23').
 9218 - , Arroyos (AGS: Arroio, S 3° 57', W 49° 24').
 9238 - , no place listed, 9241 - , no place listed.
 9255 - , Praia de Espirito Santa (Ilha de Espirito Santo, AGS: S 3° 01', W 49° 27').

- 9259 - , Baião (S 2° 40', W 49° 40').
- 9275 - , no place listed.
- 9278 - , Sitio das Pedras.
- 9317 - , no place listed.
- 9334 - , Santa Anna (Ilha da Sta. Anna in Rio Tocantins at S 2° 30', W 49° 27').
- 9358 - , Rio Mojú (at the city of Mojú, S 1° 53', W 48° 46').
- 9378 - , no place listed.
- 9379 - , Porto Real to Pará (Arrival in Belém do Pará? S 1° 26', W 48° 29').
- 9382 - , Pará (Belém), near the house.
- 9429 - , Pará, za de Pao.
- 9452 - , Pará, east of house.
- 9474 - , Pará, my house to town (house must have been on outskirts of Belém).
- 9504 - , Pará.
- 9546 - , Pará, S. Joze to the arsenal (in an old map of the city of Belém, there was an arsenal on the northwest corner of the city on the bay).
- 9614 - , Pará, Nazareth, Rosinha near to.
- 9660 - , Pará, SE of S. Joze.
- 9718 - , Pará, south of S. Joze.
- 9771 - , Pará, Caminho de Chamonte.
- 9823 - , S. Joze de Laranjeira.
- 9877 - , Pará, suburban.
- 9908 - , Pará, Rivulet de Cerveja above the Arsenal.
- 9950 - , Pará, north of Campinha and Largo de Pólvora.
- 10032 - , Pará, mouth of the Una.
- 10072 - , Pará, woods SSE of S. Joze.

